

WHAT IS CLAIMED IS:

1. A bicycle head cap unit comprising:
a cap portion being dimension to close a top opening of a steerer tube of a bicycle fork; and
a housing portion coupled to the cap portion, the housing portion being configured to form an electrical part receiving space that is located within the steerer tube when the cap portion closes the top opening of the steerer tube of the bicycle fork.
2. The bicycle head cap unit according to claim 1, further comprising a fixing portion coupled to at least one of the cap portion and the housing portion, the fixing portion being configured to secure the cap portion within a steerer tube of a bicycle fork.
3. The bicycle head cap unit according to claim 2, wherein the fixing portion includes a fixing bolt and a fixing nut threadedly coupled thereto.
4. The bicycle head cap unit according to claim 3, wherein the fixing nut is disposed adjacent an end of the housing portion that is opposite the cap portion.
5. The bicycle head cap unit according to claim 3, wherein the fixing nut is disposed between the housing portion and the cap portion.
6. The bicycle head cap unit according to claim 3, wherein at least one of the cap portion and the housing portion includes a tubular part extending through the electrical part receiving space to isolate the fixing bolt disposed in the tubular part from the electrical part receiving space.
7. The bicycle head cap unit according to claim 2, wherein the cap portion includes a first electrical connector and the housing portion includes a second electrical connector.

8. The bicycle head cap unit according to claim 1, wherein the electrical part receiving space has a bicycle control unit disposed therein.
9. The bicycle head cap unit according to claim 1, wherein the electrical part receiving space has a bicycle battery disposed therein.
10. The bicycle head cap unit according to claim 1, wherein at least one of the cap portion and the housing portion includes an electrical connector arranged to form an electrical connection within the electrical part receiving space.
11. The bicycle head cap unit according to claim 1, wherein the cap portion has a top surface with an indicator display thereon.
12. The bicycle head cap unit according to claim 1, wherein the electrical part receiving space has an electrical part disposed therein.
13. The bicycle head cap unit according to claim 12, wherein the electrical part is electrically coupled to an electrical device of a bicycle suspension.
14. The bicycle head cap unit according to claim 12, wherein the housing portion is molded around the electrical part such that the electrical part receiving space is at least partially defined by the electrical part.
15. The bicycle head cap unit according to claim 12, wherein the housing portion has an open end with the cap portion fixed to the open end of the housing portion to define the electrical part receiving space.
16. The bicycle head cap unit according to claim 12, further comprising a fixing portion coupled to at least one of the cap portion and the housing portion, the fixing portion being configured to secure the housing portion within a steerer tube of a bicycle fork.

17. The bicycle head cap unit according to claim 16, wherein the fixing portion includes a fixing bolt and a fixing nut threadedly coupled thereto.

18. The bicycle head cap unit according to claim 17, wherein the fixing nut is disposed adjacent an end of the housing portion that is opposite the cap portion.

19. The bicycle head cap unit according to claim 17, wherein the fixing nut is disposed between the housing portion and the cap portion.

20. The bicycle head cap unit according to claim 17, wherein at least one of the cap portion and the housing portion includes a tubular part extending through the electrical part receiving space to isolate the fixing bolt disposed in the tubular part from the electrical part receiving space.

21. The bicycle head cap unit according to claim 13, wherein the cap portion includes a first electrical connector electrically coupled to the electrical part and the housing portion includes a second electrical connector electrically coupled to the electrical part.

22. A bicycle head cap unit comprising:
a cap portion having a first end and a second end with an electrical part receiving space located between the first and second ends;
a fixing bolt extending longitudinally through the cap portion between the first and second ends; and
a fixing nut configured to threadedly engage a free end of the fixing bolt to secure the housing portion within a bicycle tube.

23. A method comprising:
providing a head cap unit with a cap portion being dimension to close a top opening of a steerer tube of a bicycle fork, the cap portion being configured with an electrical part receiving space;

installing an electrical part in the electrical part receiving space of the cap portion; and

installing the head cap unit within the steerer tube of the bicycle fork to close the top opening of the steerer tube of the bicycle fork such that the electrical part in the electrical part receiving space of the cap portion is disposed within the steerer tube of the bicycle fork.